

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 58397

May 5, 2010 2:28:21 PM



Page 2

Item ID: D2010-103

Accept



Setup Start



Revision ID:

Stop



Item Name: Mirror Arm, 500

Start Date: 05/05/2010 Start Qty: 6.00



Cust Item ID:

Required Date: 12/05/2010 Req'd Qty: 6.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC5- Inspect part completeness to step on W/O

0.00

S 10/05/20



QC

Memo

0.00

46

Quality Control

140

Black Sandtex(Ref:4.3.5.7) per QSI005 4.3

0.00

M112588



Powdercoat

Memo

0.00

= 291 10/05/21

26

0

Powder Coating

START TIME: 6:45 AM
FINISH TIME: 7:15 AM

OVEN TEMPERATURE: 320°F

150

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

6 BR 10-5-21

Quality Control

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May 5, 2010 2:28:21 PM



Page 3

Item ID: D2010-103

Accept



Setup Start



Revision ID:

Item Name: Mirror Arm, 500

Stop



Start Date: 05/05/2010 Start Qty: 6.00



Cust Item ID:

Required Date: 12/05/2010 Req'd Qty: 6.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

160

Identify as per dwg & Stock Location 220

0.00



Packaging

Memo

0.00

Packaging

10-5-2610-5-26

170

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/05/31
ME
10-5-27

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Picklist Print

May 5, 2010 2:28:26 PM

Page 1

Work Order ID: 58397

Parent Item: D2010-103

Parent Item Name: Mirror Arm, 500

Comments: IPP : F02.08.21 Re-format; Added D2057 KJ/RF
IPP Rev:G 08-05-27 as per ECN1195P DD verified by:EC
IPP Rev:H 08-06-20 rev.D as per dwg DD verified by:EC

Start Date: 05/05/2010

Required Date: 12/05/2010

Start Qty: 6.00

Required Qty: 6.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Qty per Kit	Qty	Date	Status
M304TR0.500W.049		Purchased	No			100	f	18.7766	1.5			



304 RD Tube .500 x .049W

Location

MAT017

111814

114045

Loc Qty

18.7766

15.833

2.9436

Loc Code

D2057

Manufactured

No

110

Each

9.0000

1



Plug

Location

ST006

57039

Loc Qty

9

9

Loc Code

m-l
10/05/20
*

6 m-l
10/05/20

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NOTE: Date & initial all entries

8

7

6

5

4

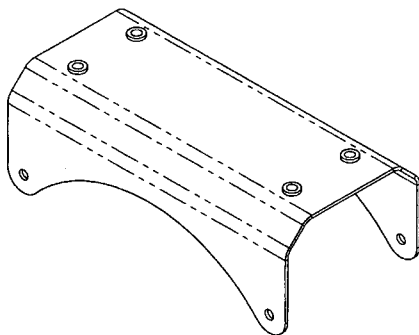
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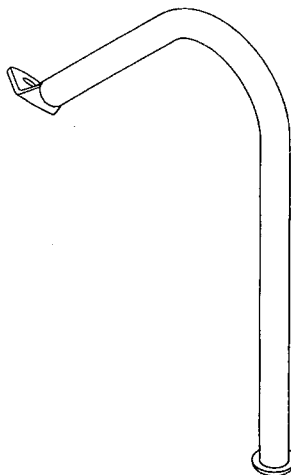
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NO. 58397

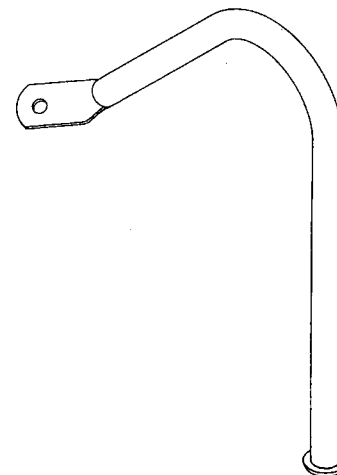
10-5-05



D2010-101 MIRROR BRACKET



D2010-103 ARM



D2010-104 ARM

RELEASED
2006 10/10/05

D	REDRAWN IN SOLIDWORKS; ADD D2010-1F FLAT PATTERN FOR D2010-101 (ZN B7-2); Ø0.500 X 0.049 WALL WAS Ø0.500 X 0.035 WALL (ZN B1-3, B1-4); REASON: TUBING CRACKING DURING SERVICE	PH	08.06.10
C	1.83 WAS 2.00; 0.60 WAS 0.62	KE	97.10.31
B	7.90 WAS 10.90	JB	92.03.17
A	NEW ISSUE	JB	90.12.15
REV.	DESCRIPTION	BY	DATE
DESIGN	JB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>JB</i>		
CHECKED	<i>JB</i>	DRAWING NO.	REV. D
MFG. APPR.	<i>JB</i>	D2010	SHEET 1 OF 4
APPROVED	<i>JB</i>	TITLE	SCALE
DE APPR.	<i>JB</i>	MIRROR BRACKET	NTS
DATE	08.06.10	<small>COPYRIGHT © 1990 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

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2

1

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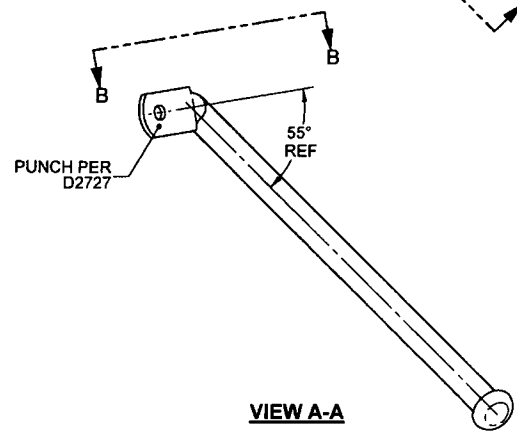
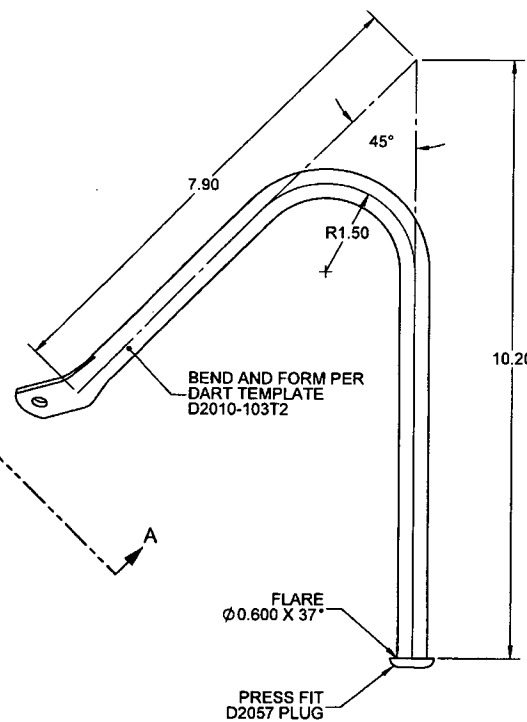
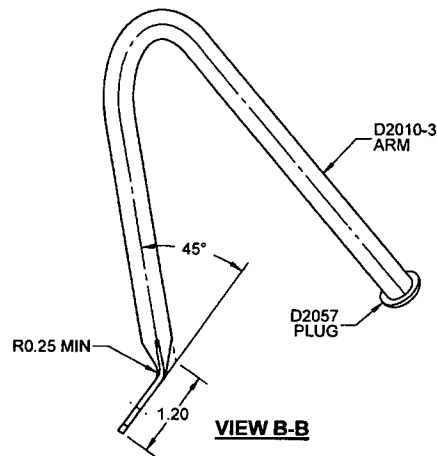
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1

QTY -103	P/N	DESCRIPTION
X	D2010-103	ARM
1	D2010-3	ARM
1	D2057	PLUG



W/O 58397

RELEASED
08.06.10

- NOTES:
- 1) MATERIAL: D2010-3; AISI 304/316 SS SEAMLESS ROUND TUBING, $\phi 0.500 \times 0.049$ WALL (REF DART SPEC M304TR0.500W.049) Δ
 - 2) FINISH: POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D2010-103" USING WHITE FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT: 0.34 lbs

DESIGN	JB	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED	PH	DRAWING NO.	REV. D
MFG. APPR.		D2010	SHEET 3 OF 4
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8 7 6 5 4 3 2 1

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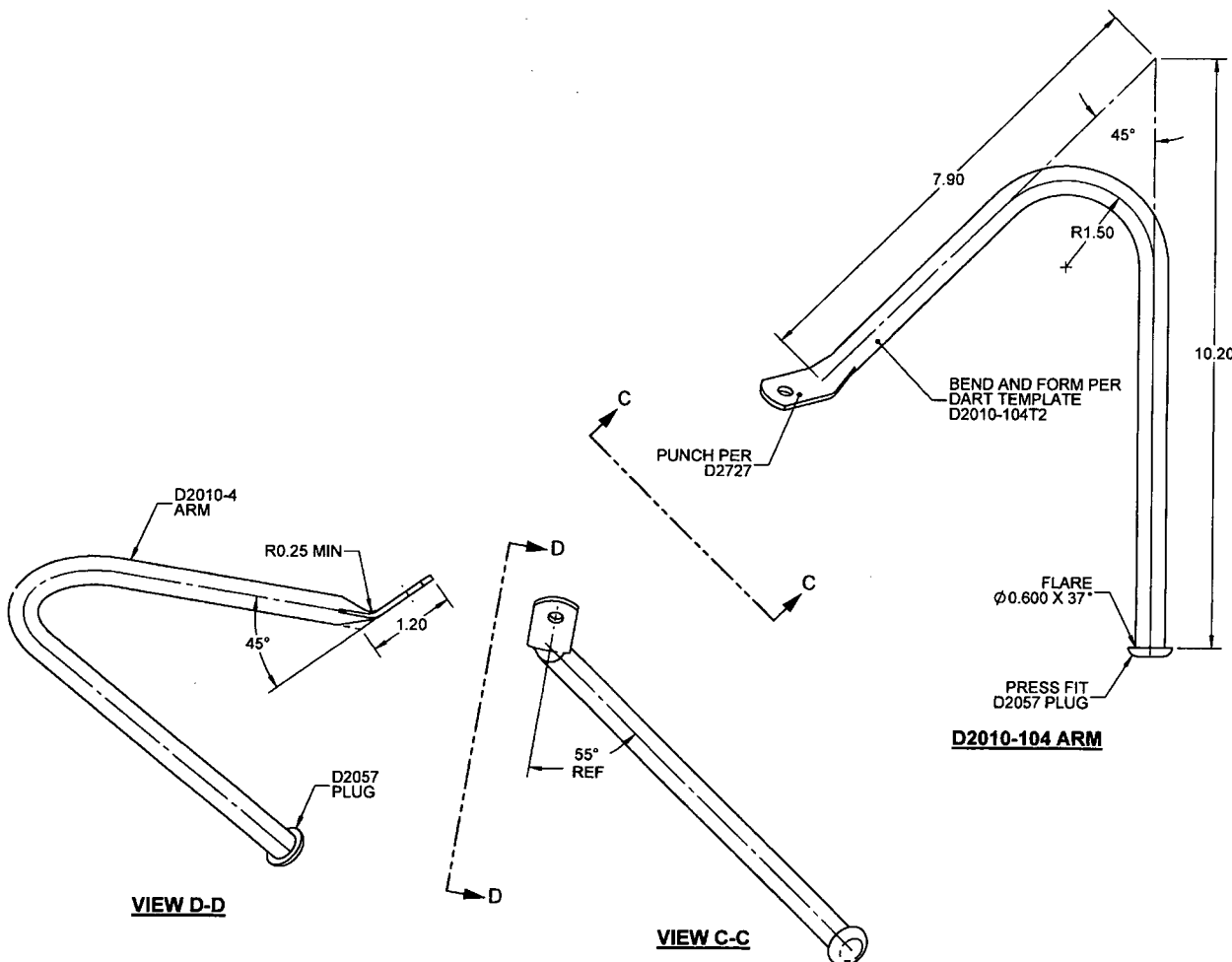
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

QTY -104	P/N	DESCRIPTION
X	D2010-104	ARM
1	D2010-4	ARM
1	D2057	PLUG



RELEASED

- NOTES:
- 1) MATERIAL: D2010-4: AISI 304/316 SS SEAMLESS ROUND TUBING, $\phi 0.500 \times 0.049$ WALL (REF DART SPEC M304TR0.500W.049) Δ
 - 2) FINISH: POWDER COAT BLACK SANDEX (4.3.5.7) PER DART QSI 005 4.3
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D2010-104" USING WHITE FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT: 0.34 lbs

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MFG. APPR.	PH	D2010	SHEET 4 OF 4
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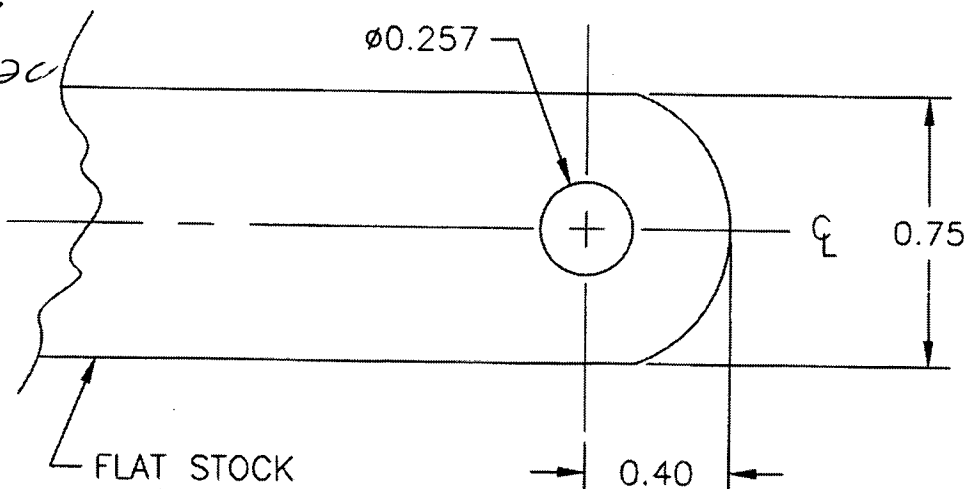
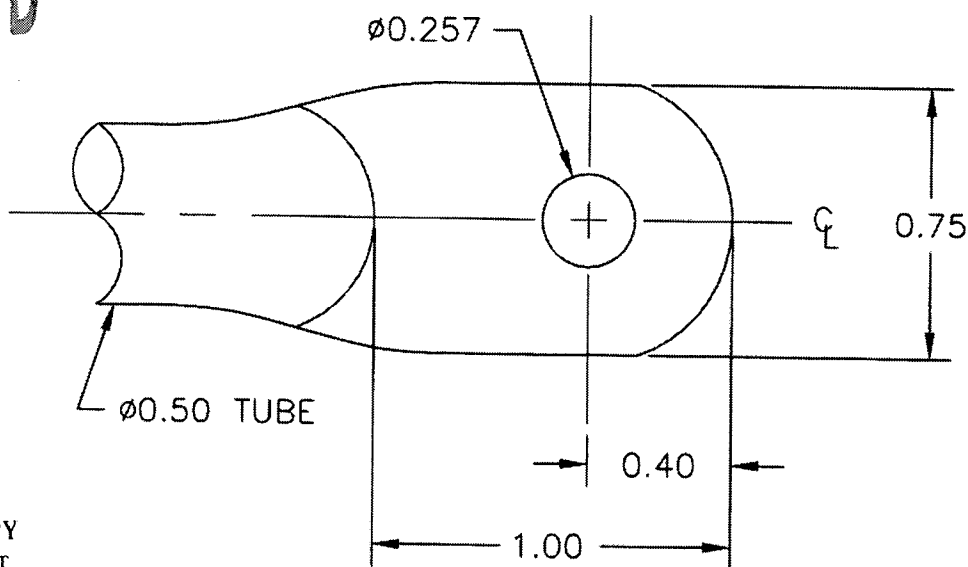
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CHECKED <i>MA</i>	APPROVED <i>JA</i>	DRAWING NO. D2727	REV. A SHEET 1 OF 1
DATE 97.11.24		TITLE PUNCH DT8012 SPEC CONTROL	SCALE 2:1
A	97.11.24	NEW ISSUE	
A1	<i>tip</i> 01.12.20	ADD TOLERANCE NOTE	

SPECIFICATION CONTROL DRAWING FOR PUNCH DT8012

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98/03/06 *KE*

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PD10-5-20



NOTE: TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.



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